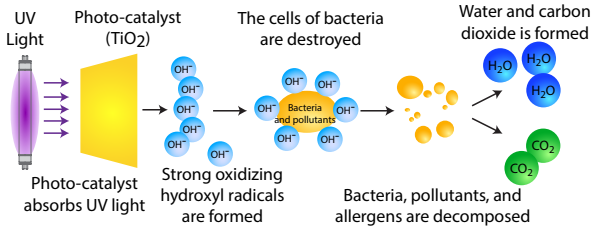




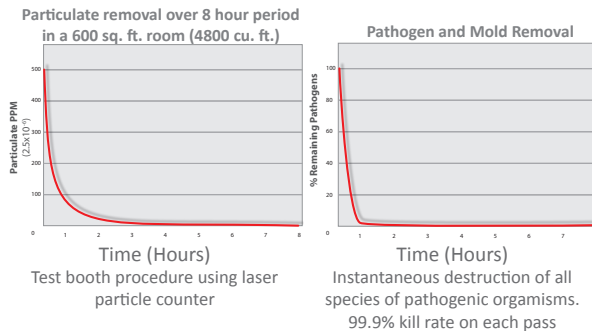
## BioSmart Advanced Air Purification Technology

Removes air borne pathogens and VOCs by photo-catalysis process, using enhanced TiO<sub>2</sub> surface catalyst with UV radiation technology.

### Bacteria, mold, virus, and VOC destruction process



- Chemists from the university of Colorado and the National Renewable Energy Laboratory in Colorado conducted an experiment testing the effectiveness of photo-catalytic oxidation against harmful VOCs. They found that destruction of these contaminants was nearly 100%.
- These highly reactive electrons aggressively combine with other elements in the air, such as bacteria and Volatile Organic Compounds (VOCs). VOCs include harmful pollutants such as ammonia, formaldehyde, benzene, and other common contaminants released by household cleaners and building materials.
- In a study commissioned by the U.S. Department of Energy, scientist found that photo-catalytic oxidation converted more than 95% of harmful VOCs to harmless carbon dioxide and water.



### BioSmart patented technology offers the most advanced heating and air purification technology available.

Covered under one or more of the following patents

US	8,562,913 / 8,247,742 / 8,427,668
Australia	2007318043
Europe	Pending
Taiwan	M375848 / M381045
China	200920268799.7 / 200930186073.4

#### Did You Know?

The EPA warns people that indoor air quality in the United States is the number one environmental problem.

#### Did You Know?

The EPA states that 6 out of 10 homes are sick, meaning they are hazardous to your health as a result of air borne pollutants.

#### TiO<sub>2</sub>

Photo-catalytic oxidation (PCO) is achieved when you combine UV light rays with a Titanium Oxide (TiO<sub>2</sub>) coated filter. This process created hydroxyl radicals and super-oxide ions, which are highly reactive electrons.

These highly reactive electrons aggressively combine with other elements in the air, such as bacteria and Volatile Organic Compounds (VOCs). VOCs include harmful pollutants such as ammonia, formaldehyde, benzene, and other common contaminants released by household cleaners and building materials.

Once bound together, the chemical reaction takes place between the super-charged ion and pollutant, effectively "oxidizing" (burning) the pollutant. This breaks the pollutant down into harmless carbon dioxide and water molecules.

#### Easy to clean

BioSmart's unique, patented combination of electrostatic layers and reticulated foam suspend particulates between each layer of foam where they are held until the filter is removed and cleaned, normally every 30 days. Cleaning takes about 5 minutes using tap water and your BioSmart filter is good as new again. There are no expensive HEPA filters to replace. You also get a Lifetime replacement guaranteed on all BioSmart electrostatic filters.

#### Reticulated Foam

Particulates that become charged by passing through the electrostatic membrane agglomerate together on the surface of the foam where they are captured permanently until the filter is serviced.

### Clean, Healthy Air and Therapeutic Infrared Heat Exits

#### Copper Plate

Copper provides further ionization which enhances the distribution of radiant heat waves as they exit the heater.

### Polluted Air Enters

#### Electrostatic Membrane

Electrostatic air purifiers work with static electricity to charge particles inside the air purifier. As a result, the charged particles stick to the foam of the internal filtration system and are removed from your indoor air. Unlike HEPA air purifiers, electrostatic air purifiers do not use filters.

#### UV

UV radiation is used interactively with TiO<sub>2</sub> to destroy air borne pathogens and break down complex hydrocarbons (VOCs).

#### Negative Ionizer

Scientific studies have shown that atmospheres charged with negative ions relieve hay fever and asthma symptoms, seasonal depression, fatigue and headaches. It's also been shown that negatively ionized atmospheres improve performance of voluntary movement, increase work capacity, sharpen mental functioning, and reduce error rates.

#### Did You Know?

Children in homes with high mold levels show persistent cold like symptoms-300% more than average.

#### Did You Know?

According to the World Health Organization, 40% of all buildings pose a serious health hazard due to indoor air pollution.